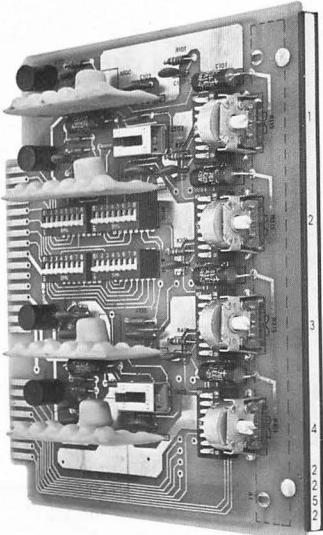
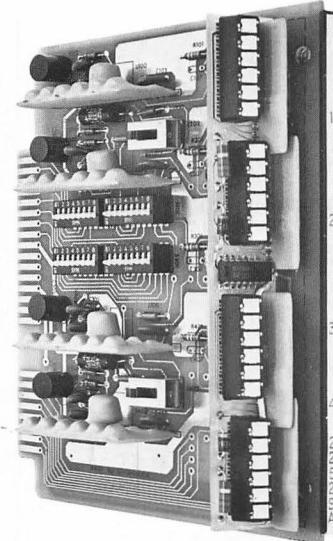


TECHNICAL
INSTRUCTIONS

2252



2252SA

SPECIFICATIONS, MODEL 2252/2252SA

Type	Driver Card with 4 driver amplifiers, input and output switch matrix and 4 attenuators.
Driver Amplifiers	X 57.3 ($35.2 \pm .2$ dB voltage amplification) amplifiers designed specifically to drive the Model 2275 Power Amplifiers.
Switches Matrix Switches:	DIP (dual inline package) SPST switches—8-switches per DIP; 4 input DIPS and 4 output DIPS
Bridging Switches:	Slide-type switches to bridge the outputs of two Model 2275 Power Amplifiers for a 70-volt balanced output.
Performance Specifications	Included with Model 2275 Power Amplifier Specifications.
Attenuators 2252:	One 50K ohm audio taper potentiometer at the input of each driver amplifier; at least 60 dB attenuation at full CCW rotation.
2252SA:	One six-position DIP switch for each attenuator with sumable steps of 1-2-4-8-16-32 dB; maximum 63 dB attenuation.

DESCRIPTION

The Model 2252 and 2252SA Driver Card Modules are plug-in components of the ALTEC Incremental Power System. The driver modules feed inputs to the power amplifier modules to achieve the desired combination of output signals and output power. One or two driver modules may be inserted in the main frame of the Incremental Power System to process the inputs.

Each driver card module includes four driver amplifier circuits, an 8-channel input switching matrix, an 8-channel output switching matrix, two bridging switches, and four attenuators. Attenuators of the Model 2252 are continuously adjustable to a maximum attenuation of -60 dB. Attenuators of the Model 2252SA are adjustable in discrete increments of 1 dB, to a maximum attenuation of -63 dB.

INSTALLATION, SETUP, OPERATION

Refer to Operating Instructions for Incremental Power System (42-02-045121).

Specifications and components subject to change without notice. Overall performance will be maintained or improved.

PARTS LIST

MAIN PCB ASSEMBLY

Reference Designator	Ordering Number	Name and Description	Reference Designator	Ordering Number	Name and Description
— *	27-02-045255-01	Circuit Board assy., 2 Channel Step Attn.	R102,202, 302,402	47-03-108443-01	Res., 1.21 kΩ + 1%, 1/4 W
C101,201, 206,301,401, 406	15-01-100156-01	Cap., 1 mF, 25V	R103,203, 214,303, 403,414	47-03-109159-01	Res., 68.1 kΩ + 1%, 1/4 W
C102,202 302,402	15-01-100233-01	Cap., 50 mF, 15V	R115,215, 315,415**	47-06-121822-01	Pot., 50 kΩ, audio taper
C103,203, 303,403	15-02-100032-01	Cap., 270 pF + 10%, 500V	S101,103, 201,203, 301,303, 401,403	51-02-121529-01	Switch, SPST, 8-sect. mini rocker
C104,204 304,404	15-02-100007-01	Cap., 3.3 pF + 10%	S202,204· U100,200, 300,400·	51-02-121952-01	Switch, SPDT, slide Int. Ckt, op amp high voltage
C105,205, 305,405	15-02-100010-01	Cap., 10 pF, 500V	17-01-121528-01		
C107,207 307,407**	15-02-100024-02	Cap., 100 pF + 10%, 500V			
R101,201 301,401	47-01-102185-01	Res., 68 kΩ + 10%, 1/4 W			

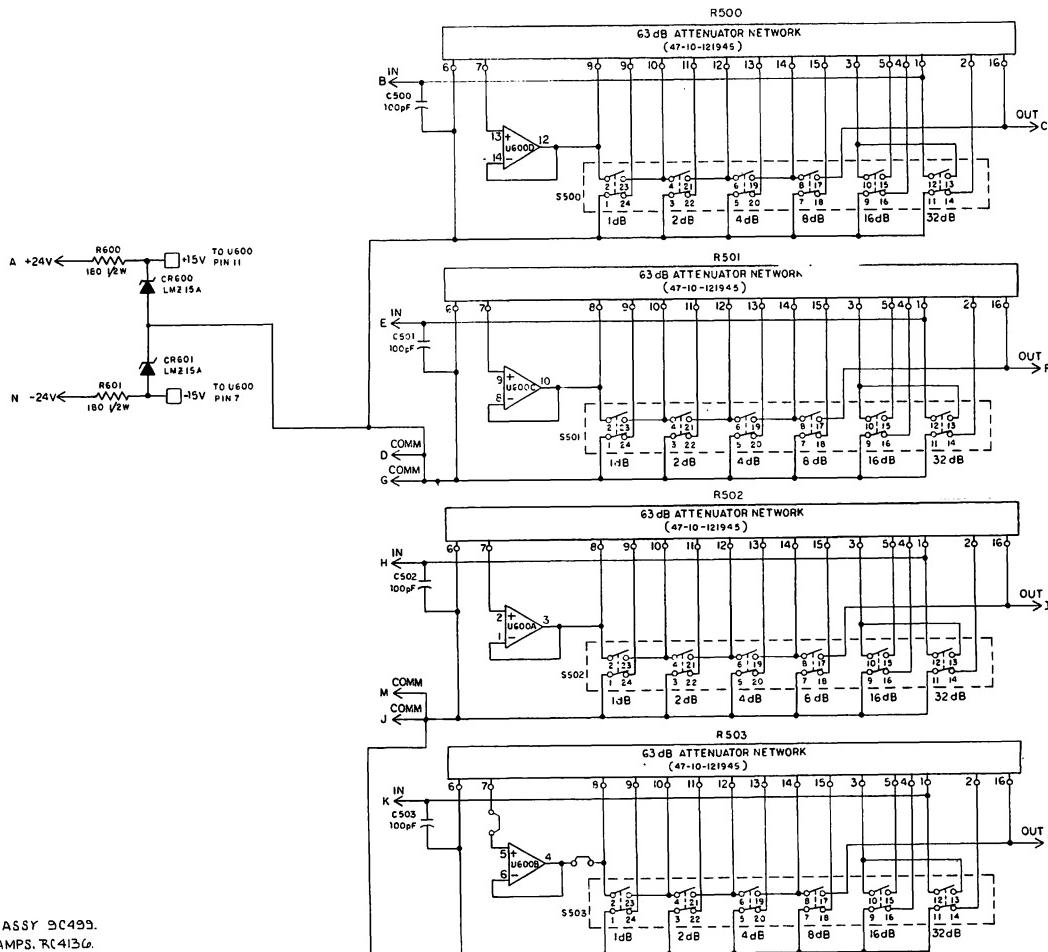
*Model 2252SA only

**Model 2252 only

FOUR-CHANNEL STEP ATTENUATOR ASSEMBLY*

Reference Designator	Ordering Number	Name and Description	Reference Designator	Ordering Number	Name and Description
C500,501 502,503	15-02-100024-01	Cap., 100 pF + 10%, 500V	R600,601	47-01-102345-01	Res., 180Ω + 10%, 1/2 W
CR600,601	48-01-108576-02	Diode, Zener, 15V + 5%, 2W	U600	17-01-121305-01	Int. Ckt., op amp
R500,501, 502,503	47-10-102345-01	Network, 63 dB attenuation	S500,501 502,503	51-02-121946-01	Switch, 6X SPDT

*Model 2252SA only

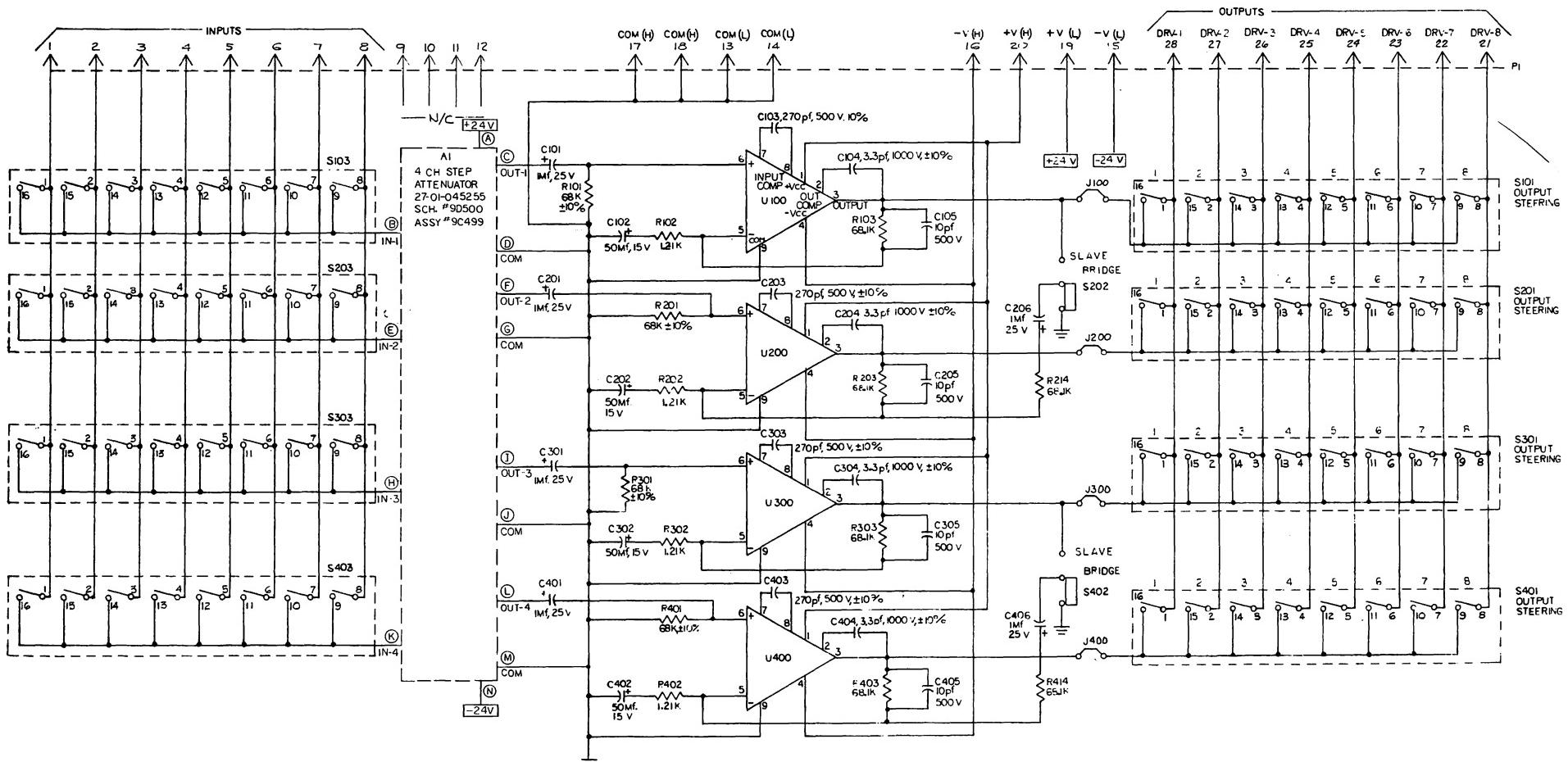


E. SEE ASSY 9C499.
I. OP AMPS, TCA413G.

NOTES: UNLESS OTHERWISE SPECIFIED

Figure 1. Schematic (9D500-01), 4-Channel Step Attenuator

REVISIONS				APPROVED	
ISSUE	ZONE	ECO	DESCRIPTION	BY	DATE
A			REL FOR PROTO	L.B.	3/10/87
B			REL FOR PRODUCTION	J.F.F.	3/10/87

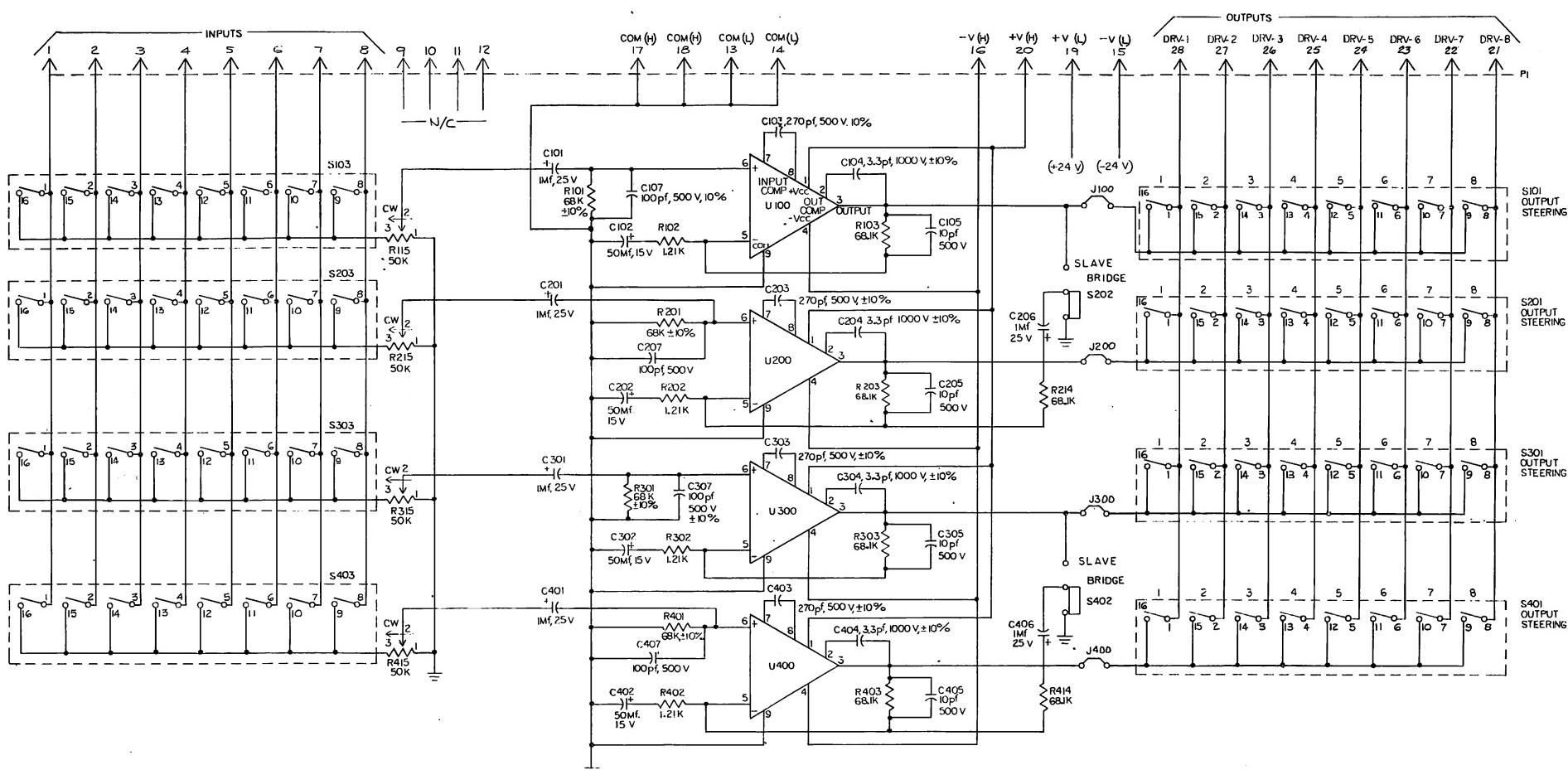


5. FOR INTERCONNECTION DWG SEE 9D145
4. FOR ASSY DWG SEE 9C487
3. FOR B/M SEE 10-02-01-213, 27-01-045254
2. ALL CAPACITOR VALUES IN PICOFARADS.
1. ALL RESISTOR VALUES IN OHMS, 1/4W, ±1%.

NOTES: UNLESS OTHERWISE SPECIFIED

Figure 2. Schematic (9D488-01), Model 2252SA Driver Module

REVISIONS				APPROVED	
ISSUE	ZONE	ECO	DESCRIPTION	BY	DATE
C			RFI FOR PROTO	C.B.	7-21-77
D			FOR CHANGE RECORD SEE REV C	F.B.	10-8-77
99			REL FOR PILOT	P.D.	7-21-77
01			REL FOR PRODUCTION	P.D.	4-11-78



5. FOR INTERCONNECTION DWG SEE 9D145.
4. FOR ASSY DWG SEE 95322.
3. FOR B/M SEE 10-02-01-199; 27-01-045108
2. ALL CAPACITOR VALUES IN PICOFARADS.
1. ALL RESISTOR VALUES IN OHMS, 1/4W, $\pm 1\%$.

NOTES: UNLESS OTHERWISE SPECIFIED

Figure 3. Schematic (9D323-01), Model 2252 Driver Module